

KAKHRAMANOV, T.

Workshops are supplied with the new machinery. Prom.koop. 13
no.3:35 Mr '59. (MIRA 12:4)

1. Predsedatel' pravleniya arteli invalidov "Poligrafist," Baku.
(Baku--Vocational rehabilitation)

GUSEYNOV, D.M.; KAKHRAMANOV, Yu.K.

Effect of a petroleum derivative growth substance on root growth and yield in winter wheat. Dokl. AN Azerb. SSR 17 no. 2:131-135 '61.

(MIRA 14:4)

1. Institut pochvovedeniya i agrokhimii AN Azerbaydzhanskoy SSR.
(Wheat) (Growth promoting substances)

ACCESSION NR: AP4009106

S/0056/63/045/006/1859/1864

AUTHORS: Danelyan, L. S.; Yefimov, B. V.; Sotnikov, S. K; Kakhramanov-Dzhazairov, V.

TITLE: Intensities of the Gamma transitions to the ground rotational band in neutron resonances of the reaction $Gd^{155}(n, \gamma)Gd^{156}$

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 45, no. 6, 1963, 1858-1864

TOPIC TAGS: gadolinium 155, gadolinium 156, gamma transition, ground rotation band, neutron resonance, neutron capture by gadolinium, resonance intensity distribution, Porter Thomas distribution

ABSTRACT: The purpose of the work was to find the variation of the partial radiation width for the 8.44-MeV transition in Gd^{156} following neutron capture at different neutron resonances. This transition was chosen because it can be readily separated from other tran-

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ACCESSION NR: AP4009106

sitions. A crystal scintillation spectrometer was used to measure the relative intensities of the γ transitions to the ground rotational band for 20 resonances in the $Gd^{155}(n, \gamma)Gd^{156}$ reaction. At the measurement accuracy attained in these experiments, the resonance intensity distribution is compatible with a Porter-Thomas distribution with one channel. The possibility remains, however, that there are two groups of such distributions with different mean intensities. The apparatus was based on coincidence circuitry and in addition to separating the 8.44-MeV γ 's it can also measure the γ -ray background at other energies. It is reported that the apparatus is being improved and the measurement of the relative intensities of the 8.44 MeV transition will be continued. "The idea of this measurement was suggested to us by L. V. Groshev and A. M. Demidov to whom we are grateful. We also thank M. I. Pevzner for a truthful discussion of the results and V. A. Kochetkov and A. Ya. Lunin for much work performed." Orig. art. has: 4 figures, 2 formulas, and 1 table.

Card 2/12

KAMBAROV, Yu.G.; KAKHRAMANOVA, A.T.; MEKHTIYEV, S.D.

Thermodynamic calculation of n-octane pyrolysis under pressure.
Azerb. khim. zhur. no.3:111-118 '64. (MIRA 18:5)

KAKHRIMANOV, I.

Hydroelectric power station builders in Daghestan are pleased.
Obshchestv.pit. no.10:31 0 '60. (MIRA 13:11)

1. Inspektor Ministerstva trgovli Dagestanskoy ASSR, g.Makhachkala.
(Daghestan--Restaurants, lunchrooms, etc.)

KAKHRIMANOV, I.

A commission of the executive committee helps to improve commerce. Sov.torg. 33 no.2:59 P '60.

(MIRA 13:5)

1. Inspektor Ministerstva trgovli Dagestanskoy ASSR.
(Kaspiysk--Retail trade)

MIROSHNICHENKO, A.; KAKHRIMANOV, I. (g.Makhachkala); PILIPENKO, A.
TYURIKOV, V. (g.Kazan'); SUVOROV, N. (pos.Pervomaysk)

Letters to the editor. Oshchestv. pit. no.7:40-41 JI '61.
(MIRA 14:8)

1. Kladovshchik stolovoy No.23 Pervogo tresta stolovykh i
restoranov g. Sverdlovska (for Miroshnichenko). 2.
Zamestitel' direktora restorana "Sport", g. Kiyev (for
Pilipenko).

(Restaurants, lunchrooms, etc.)

FRANKFURT, A.I., prof.; KAKHTSAZOVA, I.A.

Condition of the kidneys in rheumatic fever. Vrach.delo no.10:130-131
0 '60. (MIRA 13:11)

1. Kafedra propedevtiki vnutrennikh bolezney (zav. - prof. A.I.
Frankfurt) Vitebskogo meditsinskogo instituta.
(RHEUMATIC FEVER)
(KIDNEYS)

KAKHU, M.

BELOZJOROVA, A.; DANILOV, V.; HANIKAT, E.; KAHU, M.; MAIOROVA, T.
[Mayorova, T.]; SOKOLOV, A.; SUROV, A. [Surov, A.]; TIMAKOV, H.;
TUISK, A.; URB, E.; VEERSALU, E.; TIMAKOV, S.; JUHANI, I., red.;
EINBERG, K., tekhn. red.

[Achievements of Soviet Estonia in 20 years; statistical survey]
Noukogude Eesti saavutusi 20 aasta jooksul; statistiline kogumik.
Tallinn, Eesti riiklik kirjastus, 1960. 173 p. (MIRA 15:5)

1. Estonian S.S.R. Statistika Keskvalitsus. 2. Sotrudniki Statisticheskogo upravleniya Soveta Ministrov Estonskoy S.S.R. (for all except Juhani, Einberg). 3. Direktor Statisticheskogo upravleniya Soveta Ministrov Estonskoy S.S.R. (for Timakov).
(Estonia--Economic conditions)

LIYGANT, M. [Liigant, M.] (Tartu); KAKHUSK, R. [Kahusk, R.] (Tartu)

Tracking camera for the observation of artificial earth satellites.

Mul.sta.opt.nabl.isk.sput.Sem. no.29:25-29 '62. (MIRA 16:2)

1. Tartuskiy gosudarstvennyy universitet.

(Artificial satellites—Tracking)

(Astronomical photography—Equipment and supplies)

KAKHUSK, R. [Kahusk, R.]; EELSALU, Kh. [Eolsalu, H.]

Photographic observations of RS Ophiuchi. Per.zvezdy 13 no.6:436-
437 '61. (MIRA 16:9)

1. Tartuskaya astronomicheskaya observatoriya.
(Stars, Variable)

KAKIASHVILI, D.S.

Electrocardiographic and ballistocardiographic changes in the
aged. Soob. ~~Av~~ Gruz. SSR 25 no. 3:371-378 S '60. (MIRA 14:1)

1. Sukhumskaya gorodskaya bol'nitsa. Predstavleno chelnom-
korrespondentom Akademii Gruzinskoy SSR K.P. Chikovani.
(Electrocardiography) (Ballistocardiography)
(Aged)

KAKIASHVILI, D.S.

Some biochemical data from an examination of aged persons. Soob.
An Gruz. SSR 25 no. 4:417-424 0 '60. (MIRA 14:1)

1. Sukhumskaya gorodskaya bol'nitsa. Predstavleno chlenom-
korrespondentom Akademii K.P. Chikovani.
(Aged)

KAKIASHVILI, D.S.; SIMAVONYAN, V.G.

Material from an X-ray examination of the heart in aged persons.
Soob.AN Gruz.SSR 26 no.2:241-248 '61. (MIRA 14'4)

1. Sukhumskaya gorodskaya bol'nitsa. Predstavleno ohlenom-
Korrespondentom Akademii K.P.Chikovani [deceased].
(HEART--RADIOGRAPHY)

KAKIASHVILI, D.S.; TESLIA, T.A.

Systolic noises in elderly people. Soob. AN Gruz. SSR 27 no.1:
107-112 JI '61. (MIRA 16:8)

1. Sukhumskaya gorodskaya bol'nitsa. Predstavleno chlenom-
korrespondentom AN GruzSSR K.P.Chikovani [Deceased].
(HEART--SOUNDS) (AGING)

KAKIASEVILI, D.S.

Duration of heart tones in elderly persons. Socb. AN Gruz.
SSR 27 no.5:635-641 N '61. (MIRA 15:1)

1. Sukhumskaya gorodskaya bol'nitsa. Predstavleno chlenom-
korrespondentom AN Gruzinskoy SSR ~~I. P. Chikvashvili~~ [deceased].
(Heart--Sounds)

KAKIASHVILI, D.S.

Arterial oscillogram of the aged. Soob. AN Gruz. SSR 36 no.1:
233-240 0 '64. (MIRA 18:3)

1. Sukhumsкая gorodskaya bol'nitsa imeni Shervashidze. Submitted April 9, 1964.

KAKIASHVILI, D.S.

Electrocardiographic study of very old people of Abkhazia.
Sob. AN Gruz. SSR 34 no.3:719-726 Je '64 (MIRA 18:1)

1. Sukhumsкая gorodskaya bol'nitsa. Submitted November 5, 1963.

KAKIASHVILI, D.S.

Roentgenological picture of the form and size of the heart
at advanced age. Scob. AN Gruz. SSR 39 no.2:481-486 Ag '65.
(MIRA 13:9)

1. Sukhumskaya gorodskaya bol'nitsa. Submitted August 20, 1964.

KAKIASHVILI, D.S., kand. med. nauk

State of the cardiovascular system in the senile population
of Abkhazia. Trudy LIETIN no.16:197-207 '64.

(MIRA 19:1)

KAKICHEV, D.

"Experience with the operation of tires with an inserted protector," Automobile,
1951.

KUZNETSOV, F.; KAKICHEV, D.; VAL'KO, L.; BARANNIKOV, Yu.

~~ACHIEVEMENTS OF OUTSTANDING DRIVERS~~
Achievements of outstanding drivers. Avt.transp. 33 no.12:33
D '55. (MLRA 9:3)
(Automobile drivers)

KAKICHEV, D.

Analyzing the results of passenger traffic plan. Avt. transp. 36
no. 7:30-31 and 34 J1 '58. (MIRA 11:8)

1. Starshiy ekonomist Mal'chikakogo passazhirskogo avtokhozyaystva.
(Transportation, Automotive)

46(1)

AUTHOR: Kakichev, V.A.

507/40-59-2-8/30

TITLE: The Integral of Schwarz and the Formulas of Hilbert for Analytic Functions of Several Complex Variables (Integral Shvartsa i formuly Gil'berta dlya analiticheskikh funktsiy mnogikh kompleksnykh peremennykh)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 2, pp 80-93 (USSR)

ABSTRACT: Let $f(z_1, z_2)$ be analytic in the bicylinder $G_2(0, R)$ with the origin in zero and with the radii $R_k > \rho_k$ ($k = 1, 2$). Let $u(\rho, \sigma)$ be the real part and $v(\rho, \sigma)$ be the imaginary part of f , let β_{00} be the constant term of the Fourier development of v , let $\tau_k = \rho_k e^{i\zeta_k}$ be the boundary points of the cylinder. Then

$$f(z_1, z_2) = i\beta_{00} + \frac{1}{8\pi^2} \int_0^{2\pi} \int_0^{2\pi} u(\rho, \sigma) [T_2(z, \tau) - 2] d\sigma_1 d\sigma_2,$$

$$T_n(z, \tau) = \prod_{m=1}^n \left(\frac{\tau_m + z_m}{\tau_m - z_m} + 1 \right).$$

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The Integral of Schwarz and the Formulas of Hilbert
for Analytic Functions of Several Complex Variables

S07/140-59-2-8/30

In a similar manner also the formula of Hilbert

$$u(e^{i\alpha}) = c + \frac{1}{2\pi} \int_0^{2\pi} v(e^{i\varphi}) \operatorname{ctg} \frac{\varphi - \alpha}{2} d\varphi$$

is generalized to functions of several variables, but the generalized formula is very long (1 page). Some possibilities of application of the generalized formulas are mentioned. There are 2 Soviet references.

ASSOCIATION: Shakhtinskiy pedagogicheskiy institut (Shekhty Pedagogical Institute)

SUBMITTED: March 27, 1958

Card 2/2

88852

S/044/60/000/007/006/058

C111/C222

16.3000

AUTHOR: Kakichev, V.A.

TITLE: Boundary properties of the integral of Cauchy type of several variables

PERIODICAL: Referativnyy zhurnal. Matematika, no.7, 1960, 72-73.
Abstract no.7518. Uch.zap.Shakhtinsk.gos.ped.in-t, 1959, 2,
no.6, 25-90

TEXT: The author investigates boundary properties of an integral of Cauchy type of several variables for polycylindrical regions the boundary skeletons of which are topological products of simple closed smooth curves. On the skeleton Δ , the function $\varphi(t) = \varphi(t_1, t_2, \dots, t_n)$ satisfies the Hölder condition ($\varphi(t) \in H(\alpha_1, \alpha_2, \dots, \alpha_n)$) if for two arbitrary points $t = (t_1, t_2, \dots, t_n)$ and $\tau = (\tau_1, \tau_2, \dots, \tau_n)$ of the skeleton Δ it holds the inequality:

$$|\varphi(t) - \varphi(\tau)| \leq \sum_{k=1}^n \lambda_k |t_k - \tau_k|^{\alpha_k}, \quad 0 < \alpha_k \leq 1, \quad k=1, 2, \dots, n.$$

The author considers the integral of Cauchy type

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G111/G222

Boundary properties...

$$\phi(z_1, \dots, z_n) = \frac{1}{(2\pi i)^n} \int_{\Delta} \frac{f(\tau_1, \tau_2, \dots, \tau_n)}{\prod_{k=1}^n (\tau_k - z_k)} d\tau_1 d\tau_2 \dots d\tau_n; \quad (1)$$

if $z = (z_1, \dots, z_n) \in \Delta$ then the notion of the principal value of the singular integral (1) is introduced. It is proved that if $f(\tau) \in H(\alpha_1, \dots, \alpha_n)$ then there exists the principal value of this singular integral. The author derives n formulas which generalize the well-known formulas of Sokhotskiy to the case of n variables. Furthermore, the author obtains the following theorem: If the density $f(\tau)$ of the integral (1) satisfies the Hölder condition $H(\alpha_1, \dots, \alpha_n)$ on the skeleton Δ then the boundary values of the integral on the skeleton Δ satisfy the condition $H(\alpha_1 - \varepsilon, \dots, \alpha_n - \varepsilon)$, where $\varepsilon > 0$ is arbitrarily small. If $\alpha_k < 1$, $k=1, \dots, n$, then in the last theorem the condition $H(\alpha_1 - \varepsilon, \dots, \alpha_n - \varepsilon)$ can probably be replaced by the condition $H(\alpha_1, \dots, \alpha_n)$; according to the author's assertion he not yet succeeded in proving it. The well-known formula of Card 2/4

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Boundary properties...

Poincaré-Bertrand for the exchange of singular integrals of the type (1) is extended for the case of n variables. In the case $n = 2$ the obtained formula has the form:

$$\int_{\Delta} \frac{d\sigma_1 d\sigma_2}{(\sigma_1 - t_1)(\sigma_2 - t_2)} \int_{\Delta} \frac{\varphi(\sigma_1, \sigma_2, \tau_1, \tau_2) d\tau_1 d\tau_2}{(\tau_1 - \sigma_1)(\tau_2 - \sigma_2)} - \pi^4 \varphi(t_1, t_2, t_1, t_2) -$$

$$- \pi^2 \left[\int_{D_1} d\tau_1 \int_{D_1} \frac{\varphi(\sigma_1, t_2, \tau_1, t_2) d\sigma_1}{(\sigma_1 - t_1)(\tau_1 - \sigma_1)} + \int_{D_2} d\tau_2 \int_{D_2} \frac{\varphi(t_1, \sigma_2, t_1, \tau_2) d\sigma_2}{(\sigma_2 - t_2)(\tau_2 - \sigma_2)} \right] +$$

$$+ \int_{\Delta} d\tau_1 d\tau_2 \int_{\Delta} \frac{\varphi(\sigma_1, \sigma_2, \tau_1, \tau_2) d\sigma_1 d\sigma_2}{\prod_{k=1}^2 (\sigma_k - t_k)(\tau_k - \sigma_k)}, \text{ where } \Delta \text{ is the skeleton of the}$$

boundary of the region $D = D_1 \times D_2$; D_k is the boundary of the region D_k , $k=1,2$.

Finally the author gives conditions for the analytic continuability of a continuous function given on the skeleton of the boundary of a polycylindrical region. There are misprints.

Card 3/2

16(1) 16.3000, 16.4500

AUTHOR: Kakichev, V.A.

68143

SOV/20-129-6-6/69

TITLE: Cauchy Type Integral for a Topological Product of Two-dimensional Analytic Surfaces

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 6, pp 1218-1221 (USSR)

ABSTRACT: A.A. Temlyakov [Ref 1] investigated the properties of an integral over a simple smooth closed curve which lies on a two-dimensional analytic surface of a space of n ($n \geq 2$) complex variables. The author continues this idea and constructs an integral of the Cauchy type, for which the integration is carried out over the topological product of the curves L_j ($j = 1, \dots, p$; $1 \leq p \leq n$) which lie on the two-dimensional analytic surfaces D_j of the space of n ($n \geq 2$) complex variables. He defines certain singular Cauchy integrals and he shows that under certain assumptions the formula of Sokhotskiy and the formula of Poincaré-Bertrand are valid for them. Altogether the author gives 4 theorems and a great number of notations and definitions.

X

~~Class 1/2~~

Shakhtinsk Pedagogical Inst

KAKICHEV, V. A., Cand Phys-Math Sci -- (diss) "Boundary properties of Cauchy-type integral of many complex variables and some of its applications." Rostov-na-Don, 1960. 7 pp; (Rostov-na-Don State Univ); 150 copies; price not given; bibliography at end of text (13 entries); (KL, 18-60, 146)

KAKICHEV, V.A.

Riemann boundary value problem for a two-dimensional analytic
surface. Uch. zap. MGPI 96:127-144 '60. (MIRA 16:7)

(Differential equations, Partial)
(Boundary value problems)

KAKICHEV, V.A.

Character of the continuity of the boundary values of the
Martinelli-Bochner integral. Uch. zap. MCPI 96:145-150 '60.
(MIRA 16:7)

(Differential equations, Partial)
(Boundary value problems)
(Integrals)

KAKICHEV, V.A.

Cauchy integral on analytic surfaces in the space of multiple
complex variables. Uch. zap. MGPI 96:151-156 '60. (MIRA 16:7)
(Integrals) (Functions, Entire)

KAKICHEV, V.A.

Cauchy transformation of generalized functions. Dokl. AN SSSR 134
no.6:1287-1290 0 '60. (MIRA 13:10)

1. Shakhtinskiy pedagogicheskiy institut. Predstavleno akademikom
M.A.Lavrent'yevym.

(Transformations (Mathematics))

32732

S/140/61/000/004/003/013
C111/C222

16.4500

AUTHOR: Kakichev, V. A.

TITLE: On some Fredholm equations being solvable in singular
Cauchy integrals

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika,
no. 4, 1961, 25-38

TEXT: In § 1 the author considers Fredholm equations with an in-
dependent variable

$$\lambda \varphi + s \tilde{a} \tilde{\varphi} = f \quad (0.1)$$

where

$$\tilde{\varphi} = s \varphi = \frac{1}{\pi i} \int_{\Gamma} \frac{\varphi(\tau) d\tau}{\tau - t} \quad (0.2)$$

λ is a complex parameter, $a(t)$ and $f(t)$ are given functions on a
simple smooth closed curve Γ , and (0.2) is understood in the sense of
the Cauchy principal value.

$\varphi \in H(\Gamma)$ denotes that $\varphi(t)$ satisfies the Hölder condition on Γ
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X

On some Fredholm equations being ...

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C111/C222

$\varphi \in H_k(\Gamma)$ means that $\varphi^{(k)}(t) \in H(\Gamma)$. The class of generalized functions $\varphi(t)$ defined by

$$(\varphi, \psi) = \int_{\Gamma} \varphi(t) \psi(t) dt \quad (1.4)$$

over the class $H_k(\Gamma)$ ($H(\Gamma)$) is denoted with $H'_k(\Gamma)$ ($H'(\Gamma)$). The integral

$$a(t) \tilde{*} \varphi(t) = \frac{1}{\pi i} \int_{\Gamma} [a(\tau) \varphi(t) + a(t) \varphi(\tau) - a(\tau) \varphi(\tau)] \frac{d\tau}{\tau - t}, \quad (1.8)$$

is denoted as the convolution for the Cauchy transformation.

Theorem 2: If $a(t) \in H(\Gamma)$, $f(t) \in H(\Gamma)$, $a(t) \not\equiv -\lambda$ and $\tilde{f}(t) [\lambda + \tilde{a}(t)]^{-1}$ bounded on Γ then the equation

$$\lambda \varphi(t) + a(t) \tilde{*} \varphi(t) = f(t) \quad (1.10)$$

Card 2/6

X

B2732

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On some Fredholm equations being . . .

has a unique solution

$$\Psi(t) = \frac{1}{\pi i} \int_{\Gamma} \frac{\tilde{f}(\tau)}{\lambda + \tilde{a}(\tau)} \frac{d\tau}{\tau - t}, \quad (1.11)$$

in the class $H(\Gamma)$.

Theorem 3: Let $\lambda + \tilde{a}(t)$ have zeros of l_k -th order in $t_k \in \Gamma$, let $a(t)$ and the fundamental functions $\Psi(t)$ be out of the class $H_1(\Gamma)$, where $l = \max_k \{l_k - 1\}$; let Γ be l_k times differentiable in the neighborhoods of the t_k . Then the general solution of

$$\lambda \Psi(t) + a(t) \tilde{\Psi}(t) = 0 \quad (1.12)$$

in the class $H_1'(\Gamma)$ is given by

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On some Fredholm equations being ...

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C111/C222

$$\varphi(t) = \sum_k \sum_{p=0}^{l_k-1} \frac{A_{kp}}{(t-t_k)^{p+1}} \quad (1.14)$$

where A_{kp} are arbitrary constants.

Theorem 4: In order that (1.10) has a solution $\varphi(t) \in H_1(\Gamma)$ under the assumptions of theorem 3, it is necessary and sufficient that $f(t)$ satisfies the conditions

$$\left. \frac{d^p \tilde{f}(t)}{dt^p} \right|_{t=t_k} = \frac{1}{\pi i} \int_{\Gamma} \frac{f^{(p)}(\tau) d\tau}{\tau - t_k} = \frac{p!}{\pi i} \int_{\Gamma} \frac{f(\tau) d\tau}{(\tau - t_k)^{p+1}} = 0. \quad (1.16)$$

Let Γ be a circle around the origin as the center $\alpha = \frac{1}{k} \pi$, $a(t) \in H(\Gamma)$, $f(t) \in H(\Gamma)$. The author considers the equation

Card 4/6

X

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On some Fredholm equations being . . . C111/G222

$$\varphi(t) + a(te^{i\alpha}) * \varphi(te^{i\alpha}) = f(t) \quad (1.18)$$

and gives sufficient conditions that (1.18) has a unique solution in $H(\Gamma)$.

Let $a_{pq}(t) \in H(\Gamma)$, $f_p(t) \in H(\Gamma)$ ($p, q = 1, 2, \dots, n$). Let $\Delta(t)$ be the determinant of

$$\sum_{p=1}^n \tilde{a}_{pq}(t) \tilde{\varphi}_p(t) = \tilde{f}_q(t), \quad q = 1, 2, \dots, n, \quad (1.26)$$

and $\Delta(t) \neq 0$ on Γ . Let $\Delta_p(t)$ be the Cramer determinant appearing in the solution of (1.26); $\Delta_p(t) \Delta^{-1}(t) \in H(\Gamma)$ for $p=1, 2, \dots, n$. Then the system

$$\sum_{p=1}^n a_{pq}(t) * \varphi_p(t) = f_q(t), \quad q = 1, 2, \dots, n \quad (1.25)$$

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On some Fredholm equations being . . .
has a unique solution

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C111/C222

$$\varphi_p(t) = \frac{1}{\pi i} \int_{\Gamma} \frac{\Delta_p(\tau)}{\Delta(\tau)} \frac{d\tau}{\tau-t}, \quad p=1,2,\dots,n \text{ in } H(\Gamma).$$

The obtained results can be extended to corresponding integral equations with several independent variables. In § 2 the same is done for the case of two independent variables.

The author mentions G. Ye. Shilov, Yu. J. Cherskiy, S. Ya. Al'per. He thanks Professor F. D. Gakhov for advices. There are 4 Soviet-bloc and 2 non-Soviet-bloc references. The reference to the English-language publication reads as follows: E. Titchmarsh, Vvedeniye v teoriyu integralov Fur'ye [Introduction to the theory of Fourier integrals] M.-L., 1948.

ASSOCIATION: Shakhtinskiy pedagogicheskiy institut (Shakhty Pedagogical Institute)

SUBMITTED: March 16, 1959

Card 6/6

X

16,4500

S/140/61/000/006/002/007
C111/C444

AUTHOR: Kakichev, V. A.

TITLE: On some Fredholm equations being solvable in Hilbert integrals

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, no. 6, 1961, 32-42

TEXT: The present paper is mainly dedicated to the equation

$$\lambda \varphi + \Gamma \bar{a} \bar{\varphi} = f, \quad (0.1)$$

where

$$\bar{\varphi}(s) = \Gamma \varphi(\sigma) = \frac{1}{2\pi} \int_{-\pi}^{\pi} \varphi(\sigma) \operatorname{ctg} \frac{\sigma - s}{2} d\sigma \quad (0.2)$$

λ being a real parameter, $a(s)$ and $f(s)$ being functions given on $(-\pi, \pi)$ satisfying the Hölder condition.

All integrals are understood in the sense of the Cauchy principal value.

Let

$$M\varphi = \frac{1}{2\pi} \int_{-\pi}^{\pi} \varphi(s) ds. \quad (0.4)$$

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S/140/61/000/006/002/007

On some Fredholm equations being . . . C111/C444

If a real 2π -periodic function $\varphi(s)$ satisfies the Hölder condition, then let $\varphi \in H$; if besides there is $M\varphi = 0$, then let $\varphi \in H^0$.

Let

$$(\varphi, \psi) = \int_{-\pi}^{\pi} \varphi(s) \psi(s) ds. \quad (1.10)$$

Let $H'(H^0)$ denote those classes of generalised functions $\varphi(s)$ which are generated by (1.10) over the classes $H(H^0)$ of the functions $\varphi(s)$.
Let

$$a(s) \bar{*} \varphi(s) = \frac{1}{2\pi} \int_{-\pi}^{\pi} [a(\sigma) \varphi(s) + a(s) \varphi(\sigma) - a(\sigma) \varphi(\sigma)] \operatorname{ctg} \frac{\sigma-s}{2} d\sigma. \quad (1.7)$$

Theorem 1: (on the convolution) If $\varphi(s) \in H$ and $a(s) \in H$, then

$$\int \bar{a} \bar{\varphi} = -a \bar{*} \varphi, \quad \int a \bar{*} \varphi = \bar{a} \bar{\varphi} - M \bar{a} \bar{\varphi}. \quad (1.8)$$

If $\varphi(s) \in H'$ and $a(s) \in H$ ($\varphi(s) \in H^0$ and $a(s) \in H$), then (1.8)

$$(\text{or } \int \bar{a} \bar{\varphi} = -a \bar{*} \varphi, \quad \int a \bar{*} \varphi = \bar{a} \bar{\varphi}) \quad (1.12)$$

Card 2/6

On some Fredholm equations being . . . ³¹⁹¹³ S/140/61/000/006/002/007
C111/C444
in the class $H^1(H^{0'})$.

In the class $H^0(H)$ there is searched a solution of

$$\lambda \varphi(s) + a(s) \bar{\varphi}(s) = f(s) \quad (2.1)$$

where $a(s) \in H$, $f(s) \in H$. Let

$$\alpha = - \int_{-\pi}^{\pi} \frac{\bar{f}(\sigma) d\sigma}{\lambda + \bar{a}(\sigma)}, \quad \beta = \int_{-\pi}^{\pi} \frac{d\sigma}{\lambda + \bar{a}(\sigma)}.$$

Theorem 2: Let $a(s) \in H$, $f(s) \in H^0$, $\lambda + \bar{a}(s) \neq 0$, there exist $\frac{\alpha}{\beta}$, and let $[f(s) + \alpha\beta^{-1}][\lambda + \bar{a}(s)]^{-1} \in H$. Then (2.1) possesses a solution in H^0 . This solution is unique and is given by

$$\varphi(s) = - \frac{1}{2\pi} \int_{-\pi}^{\pi} \frac{\bar{f}(\sigma) + \alpha\beta^{-1}}{\lambda + \bar{a}(\sigma)} \operatorname{ctg} \frac{\sigma - s}{2} d\sigma + C \quad (2.5)$$

with $C = 0$. If $\lambda = 0$, then (2.1) has a solution in the class H which
Card 3/6

On some Fredholm equations being . . . ³¹⁹¹³
 S/140/61/000/006/002/007
 C111/C444
 is given by (2.5) too, but C now being an arbitrary constant.
 Theorem 3 is dedicated to the homogeneous equation

$$\lambda \varphi + a \overline{\varphi} = 0. \quad (2.6)$$

u

One considers the case where $\lambda + \overline{a}(s)$ has zeros of the orders $l_k + 1$ in the points $s_k (-\pi \leq s_k \leq \pi)$, and where $a(s) \in H_1$, $l = \max \{l_k\}$, i. e. $\varphi^{(1)}(s) \in H$.

Further on the equation

$$\varphi(s) + \frac{1}{2\pi} \int_{-\pi}^{\pi} [a(\sigma) \varphi(-s) + a(-s) \varphi(\sigma) - a(\sigma) \overline{\varphi}(\sigma)] \operatorname{ctg} \frac{\sigma-s}{2} d\sigma = f(s), \quad (4.1)$$

is considered.

Theorem 4: Let $a(s) \in H$, $f(s) \in H^0$, there exist $\frac{\alpha}{\beta} = M \overline{a} \overline{\varphi}$, and the density of the integral (4.5) shall belong to the class H:

Card 4/6

On some Fredholm equations being . . . ³¹⁹¹³
 S/140/61/000/006/002/007
 C111/C444

$$\varphi(s) = -\frac{1}{2\pi} \int_{-\pi}^{\pi} \frac{\bar{f}(\sigma) + \bar{a}(-\sigma) \bar{f}(-\sigma) - [1 + \bar{a}(-\sigma)] \beta^{-1}}{1 - \bar{a}(\sigma) \bar{a}(-\sigma)} \operatorname{ctg} \frac{\sigma-s}{2} d\sigma. \quad (4.5).$$

Then (4.1) has the unique solution (4.5) in the class H^0 .
 At last the system

$$\sum_{p=1}^n a_{pq}(s) \bar{\varphi}_p(s) = f_q(s), \quad q = 1, 2, \dots, n \quad (5.1)$$

is investigated, where $a_{pq}(s) \in H$, $f_q(s) \in H^0$ ($p, q = 1, 2, \dots, n$). By means of the Hilbert transform one obtains a system of algebraic equations. In theorem 5 it is said that in case of the determinant Δ of this system being $\neq 0$ on $s \in (-\pi, \pi)$, and in case of a further determinant Δ_0 being $\neq 0$, then the system (5.1) possesses a unique solution in the class H^0 .

There are 4 Soviet-bloc references and 1 non-Soviet-bloc reference.
 Card 5/6

On some Fredholm equations being . . . ³¹⁹¹³S/140/61/000/006/002/007
C111/C444

The reference to English-language publication reads as follows:
E. Titchmarsh: Vvedenie v teoriyu integralov Fur'ye. [Introduction to
the theory of Fourier integrals] GITTL, M.-L., 1948. ix

ASSOCIATION: Shakhtinskiy pedagogicheskiy institut (Shakhty Pedagogical
Institute)

SUBMITTED: March 10, 1959

Card 6/6

1. KAKIMOV, T.
 2. USSR (600)
 4. Stock and Stockbreeding
 7. Results of work of a mechanized livestock station, Kolkh. proizv., 13, No. 1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

KAKIMZHANOV, A.

The collective and state farms of Kazakhstan should rotate
their crops correctly. Vop.ekon. no.1:149-150 Ja '59.
(MIRA 12:1)

(Kazakhstan--Rotation of crops)

IMANALIYEV, M.I. (Frunze); KAKISHOV, K.B. (Frunze)

Theory of optimal systems with residual effect. Prikl. mat. i
mekh. 28 no.3:534-536 My-Je'64 (MIRA 17:7)

EXCERPTA MEDICA Sec 15 Vol. 11/1 Chest Dis. Jan 58
 KAKITELASHVILI, G. V.
 141. KAKITELASHVILI G. V. The significance of cavernotomy in complex treatment of patients with tuberculosis of the lungs (Russian text) Khirurgiya 1957, 3 (61-65) Tables 1 illus. 4

Forty patients with fibrous-cavernous tb of the lungs were under the author's observation. They were subjected to cavernotomy and further treatment of opened cavities is described in this paper. All the patients before being operated were treated by antibacterial preparations (streptomycin, PAS, phthivacid) depending on the spread and stage of the disease. Special attention was directed to the condition of the draining bronchus. In 22 patients excision of the cavity was done in one stage. The cavities of the upper lobe were usually approached by axillary incision with resection of 3 or 4 ribs. In opening the cavity the author followed the principle of maximal resection of its external and, if possible, lateral walls. The opened cavity was treated by 80 % solution of trichloroacetic acid. In the postoperative period when dressings were changed, sterile gauze soaked in streptomycin and penicillin was packed into the cavity. The opening of the bronchus was systematically treated by 33 % solution of AgNO₃. Such method of treatment brought about rapid disappearance of tb bacilli from the sputum and also closure of the bronchial fistula. In the presence of bronchial fistula and residual cavity muscular plasty was performed. Out of 40 who were operated 2 patients died. In one patient with bilateral cavernous process, tb bacilli were still present in the sputum. In 3 patients bronchial fistula recurred after muscular plasty. In one of these patients no tb bacilli were found in the sputum. (IX, 15)

KERESELDZE, K.M., kand.ekonomicheskikh nauk (Tbilisi); KAKITELASHVILI,
I.Ya., inzh. (Tbilisi)

Increased labor productivity at the Tiflis Locomotive and Car
Repair Shop. Zhel.dor.transp. 41 no.12:71-73 D '59.
(MIRA 13:4)

(Railroads—Repair shops)

— KAKITELASHVILI, Ya. V.

KAKITELASHVILI, Ya. V. "Changes in the Innervation of an Artery in Spontaneous Gangrene of the Lower Extremities." Cand Med Sci, Central Inst for the Advanced Training of Physicians 2 Feb 54. (Vechernyaya Moskva, 22 Jan 54)

SO: SUM 168, 22 July 1954

KAKITELASHVILI, Ya.V.

Significance of cavernostomia in compound therapy for pulmonary tuberculosis [with summary in English]. Khirurgiia 33 no.3:61-65 (MLRA 10:6)
M: '57.

1. Iz 1-y kafedry tuberkuleza (zav. - prof. A.Ye.Rabukhin)
TSentral'nogo instituta usovershenstvovaniya vrachey (dir. V.P. Lebedeva).

(TUBERCULOSIS, PULMONARY, surg.
cavernostomy, technic (Rus))

KAKITELASHVILI, M. V.

KAKITELASHVILI, Ya.V.; SMULEVICH, V.B.

Cavernous resection and simultaneous transplantation of intercostal
vascular-muscular pieces [with summary in French]. Probl.tub. 35
no.4:112-113 '57. (MIRA 10:8)

1. Iz kafedry tuberkuleza legkikh (zav. - prof. A.Ye.Rabukhin,
professor kafedry - I.K.Bogush) Tsentral'nogo instituta nauchno-
issledovaniya vrachey (dir. V.P.Lobedev)

(TUBERCULOSIS, PULMONARY, surg.

cavernous resection & simultaneous transpl. of vasc.
musc. intercostal pieces (Rus))

KAKITELASHVILI, Ya.V. (Moskva, B. Vlas'yevskiy, d.9, kv.12)

Thoracoplasty with pneumolysis and fixation of the apex in tuberculosis. Grud. khir. 2 no.3:52-55 My-Je '60. (MIRA 15:3)

1. Iz kafedry tuberkuleza (zav. - prof. A.Ye. Rabilkhin, nauchnyy rukovoditel' - prof. L.K. Bogush) TSentral'nogo instituta usovershenstvovaniya vrachey (dir. V.P. Lebedeva).
(CHEST---SURGERY)
(TUBERCULOSIS)

KAKITELASHVILI, Ya.V.; AVERBAKH, M.M.

Morphological characteristics of large and giant caverns in
pulmonary tuberculosis, resection data. Khirurgiia 39
no.8:11-19 Ag '63. (MIRA 17:6)

1. Iz kafedry khirurgii legochnogo tuberkuleza i drugoy legochnoy
patologii (zav.- chlen-korrespondent AMN SSSR prof. L.K. Bogush)
i patomorfologicheskoy laboratorii (zav.- prof. V.I. Puzik)
TSentral'nogo instituta tuberkuleza Ministerstva zdravo-
okhraneniya SSSR.

KAKITELASHVILI, Ya.V. (Moskva, Trekhpudnyy pereulok, d.5/15, kv.4)

Immediate and late results of the surgical treatment of pulmonary tuberculosis with large and gigantic caverns. Grud. khir. 5 no.5:41-45 S-O '63. (MIRA 17:8)

1. Iz kafedry khirurgii legochnogo tuberkuleza i drugoy legochnoy patologii (zav. - chlen-korrespondent AMN SSSR prof. L.K. Bogush) Tsentral'nogo instituta usovershenstvovaniya vrachev.

KAKITELASHVILI, Ya.V.

Pneumonectomy and subtotal lung resection in patients with large
and gigantic caverns. Khirurgiia 40 no.3:90-95 Mr '64.

(MIRA 17:9)

1. Kafedra khirurgii legochnogo tuberkuleza i drugoy legochnoy
patologii (zav.- chlen-korrespondent AMN SSSR prof. L.K. Bogush)
TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

KAKITELASHVILI, Ya.V. (Moskva, Trekhpudnyy perelok, 5/15, kv.4)

Surgical treatment of pulmonary tuberculosis with large and giant cavernas. Vest. khir. 92 no.2:51-56 P '64.

(MIRA 17:9)

1. Iz kafedry khirurgii legochnogo tuberkuleza i drugoy legochnoy patologii (zav.- prof. L.K. Bogush) Tsentral'nogo in'stituta usovershenstvovaniya vrachey (rektor - zasluzhennyy vrach RSFSR M.D. Kovrigina).

KARIBULASHVILI, Ya.V.; ZHILIN, Ya.K.; SHIPILOVA, N.M.

Characteristics of anesthesia in operations on a single lung in tuberculosis. Eksp. khir. i anest. 9 no.3:65-67 My-Je '64.
(MIRA 18:3)

1. Kafedra khirurgii legochnogo tuberkuleza (rav. - deystvitel'nyy chlen AMN SSSR prof. L.K. Bogush) Tsentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

KAKLUBOWSKA, J.Z.

Algae of artificial ponds in Lodz City and Pabianice City. Polskie
arch hydrobiol 8:223-233 '61.

1. Katedra Systematyki i Geografii Roslin, Uniwersytet, Lodz.

L 10635-66 EWT(1)/EEC(k)-2/1/EWA(h) LJP(c)

ACC NR: AR5023525

SOURCE CODE: UR/0275/65/000/008/B034/B034

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 8B277

AUTHOR: Kaklyugin, B. A. ⁴⁴

TITLE: Temperature stabilization of transistors ^{25, 44}

CITED SOURCE: Tr. Tbilissk. n.-i. in-ta priborostr. i sredstv avtomatiz., no. 4-5, 1964, 227-231 ⁴⁴

TOPIC TAGS: transistor, transistorized amplifier, temperature stabilization,
TRANSISTORIZED CIRCUIT

TRANSLATION: A method is suggested for estimating the temperature stabilization of a-c transistor gain by means of a low-frequency transistor equivalent circuit. A formula is developed for the maximum value of the internal resistance of the signal source which ensures constant gain. An example is given of calculation of an amplifier with P14 transistors that has practically constant gain within $-60 + 60^{\circ}\text{C}$. Figs. 4

SUB CODE: 09

Card ^{ny} 1/1

UDC: 621.382.317.71

L 37115-66 EWP(k)/EWT(d)/EWP(h)/EWP(l)/EWP(v) BC/GD

ACC NR: AT6006232

SOURCE CODE: UR/0000/65/000/000/0373/0381

AUTHOR: Kaklyugin, B. A.

ORG: None

33
B+1

TITLE: The expansion of three-valued logic functions

SOURCE: AN SSSR. Institut avtomatiki i telemekhaniki. Tekhnicheskaya kibernetika (Technical cybernetics). Moscow, Izd-vo Nauka, 1965, 373-381

TOPIC TAGS: computer logic, logic circuit, mathematic logic, computer control system

ABSTRACT: A general method is proposed for expanding three-valued logic functions for various base operators. The possibility is discussed of realizing three-valued logic functions by three-component elements. The algorithm for three-valued logic algebra is given. A general formula is given for the expansion of a two-variable function. A general expansion formula is also presented. The results show that expansion formulas can be set up for all cases. It is also indicated that no one has attempted to solve this problem. Three-component elements are one of the difficulties in solving this problem. Only a few types have been developed and these are comparatively complex. A three-component element

Card 1/2

L 37115-66

ACC NR: AT8006232

made up of tunnel diodes appears to be best suited for solving this problem. Orig. art.
has: 7 figures and 13 tables.

SUB CODE: 09 / SUBM DATE: 05Nov65 / ORIG REF: 002 / OTH REF: 004

ms
Card 2/2

60

L 35565-65
 ACCESSION NR: AP5008153
 EPF(o)/EPF(n)-2/EPF/EWO(j)/EWT(d)/EWT(1)/EWT(m)/EWT(h)/EWT(e)
 Pu-4 WH/W/JW/ S/0286/65/000/005/0031/0051

AUTHORS: Zinchenko, A. I.; Zarechenskiy, Ye. T.; Noshchenko, K. Ye.; Kanevskiy, L. S.; Sinyavskiy, B. S.; Novlyanskiy, V. P.; Kakiyugin, B. S.; Fal'ko, V. I.; Kosmynin, Ye. Ya.; Genin, L. Sh.; Kralin, L. A.

TITLE: A graphite heat exchanger. Class 17, No. 168734

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 31

TOPIC TAGS: heat exchanger, graphite

ABSTRACT: This Author Certificate presents a graphite heat exchanger made of blocks with channels for heat-exchanging media. It is equipped on the ends with caps and fittings for introducing and removing the indicated media. To improve the thermal efficiency and to reduce weight, the caps are equipped with adapter plates and horizontal baffles for multipass parallel countercurrents of the media.

ASSOCIATION: none

SUBMITTED: 20Feb63 ENCL: 00 SUB CODE: TD

NO REF SOV: 000 OTHER: 000

Card 1/1

KAKOISHVILI, G.A.

Regeneration of the splenic tissue. Soob. AN Gruz. SSR 35 no.3:
721-727 S '64.
(MIRA 17:11)

1003 00336 36 3 584 17 1581
Bogucka J., Iwanowska J., Kukul B. Use of Paper Chromatography to
Determine Vitamin B₁₂ in Liver Extracts.

"Zastosowanie chromatografii na bibule do oznaczania witaminy
B₁₂ w ekstraktach wątrobowych." *Przemysł Chemiczny*, No. 10, 1952,
pp. 512-513.

A description of a method, using paper chromatography, for deter-
mining vitamin B₁₂ in liver extracts of different degrees of purity and
vitamin content. The composition of a solvent was established empirically
with conditions enabling the formation of elliptical growth areas with
clear outlines. The chromatogram was developed on agar-agar plates
inoculated with *E. Coli* mutants.

KAKOL, H.

Polish Technical Abst.
No. 4, 1953
Chemistry and Chemical
Technology

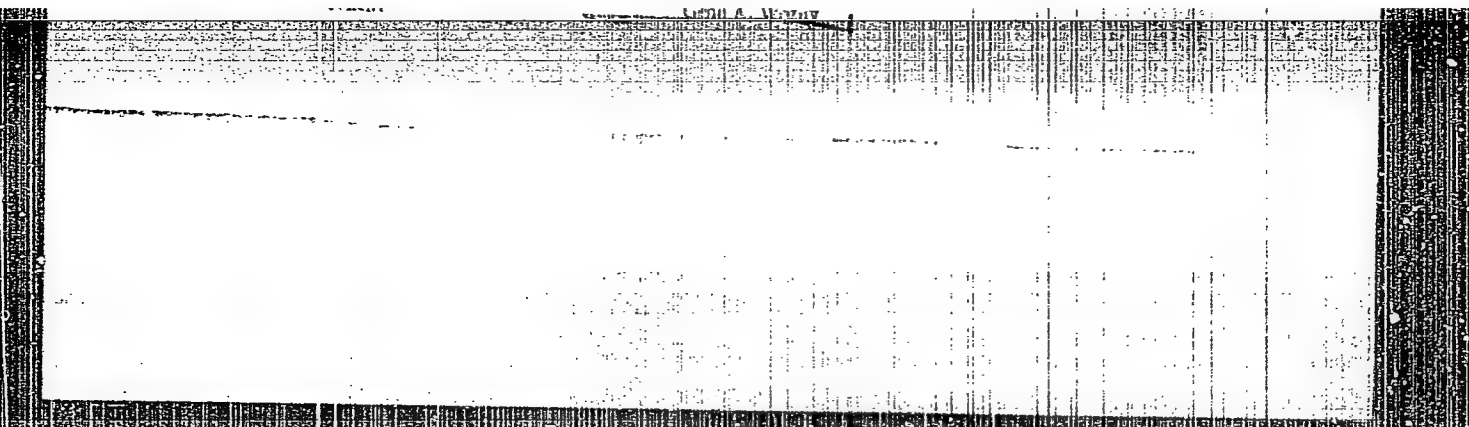
3100 ✓
Bogucka J., Iwanowska J., Kakol H. Determining Vitamin B₁₂ in Liver
Extracts
615.981.38 : 577.16, B₁₂ : 543.9
③ Aeromed
„Oznaczanie witaminy B₁₂ w ekstraktach wątrobowych”. Przemysł
Chemiczny. No. 1, 1953, pp. 10—13, 1 fig., 2 tabs.
An exposition of the cup-plate method of determining vitamin B₁₂
in purified liver extracts using *Lactobacillus Lactis* Dorner and *Lacto-*
bacillus Leichmanii. Also described is an acidimetric method of de-
termining (by using *Lactobacillus* Leichmanii) the factor of growth
in unperfused or insufficiently purified liver extracts. The vitamin B₁₂
content was determined from the difference in quantities of factors of
growth found in the extract prior to and after hydrolyzing it with an
0.2 N solution of sodium hydroxides.

Application of paper chromatography to determine vitamin B₁₂ in liver extracts. J. Boguska, J. Ewanowski, and H. Rakol. *Przemysl Chemic.* 9, 513-13 (1938) (English summary).

A paper chromatographic method is reported, which allows the determination of a wide range of vitamin B₁₂ contents in liver extracts of various species and purity with the aid of appropriate standards. The method is based on the fact that the standard, 100% B₁₂, is placed on paper which is previously impregnated with K₂H₂PO₄ and dried in air. A solution of 8 ml of 10% KOH, 10 ml of EtOH, and 100 ml of water is used as a solvent. The dry chromatogram is developed on paper impregnated with a strain of *Escherichia coli*. After 18 hr. a well-defined elliptic chromatogram is obtained, which is measured planimetrically. The vitamin B₁₂ content is calculated.

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000620010002-0



APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000620010002-0"

Analytical Abst.
May 1954
Biochemistry

1100. Application of paper chromatography for the determination of vitamin B₁₂ in liver extracts. J. Bogucka, J. Iwanowski and H. Kald (Prism. Chem., 1953, 23 [10], 512-513).—A biological method for the determination of up to 1 µg per ml of vitamin B₁₂ in liver extracts has been described by the authors (Prism. Chem., 1953, 23, 15). Now a paper chromatographic method is reported, which allows the determination of a wide range of vitamin-B₁₂ contents in liver extracts of various degrees of purity, with the aid of an apparatus described by Hermanowicz and Olschowski (Prism. Chem., 1950, 20, 649). Sample of 0.002 ml of the examined soln. are placed on paper strips previously impregnated with KH₂PO₄ and dried at 40° C. A mixture of 8 ml of n-butanol, 10 ml of ethanol and 100 ml of water serves as solvent. The dry chromatogram is developed on agar inoculated with a strain of *E. coli*. After 18 hr. a well-defined elliptic chromatogram is obtained, which is measured planimetrically. The vitamin-B₁₂ content is calculated with the aid of a graph, in which for a standard vitamin-B₁₂ soln. the chromatographic zones are plotted against the log. of vitamin B₁₂ concn. H. BURNSTIN

BIESTEK, A.; BOGUCKA, H.; GAJCY, H.; KAKOL, H.

Isolation of bacteria synthesizing vitamin B12. Acta physiol. polon.
10 no.1:115-123 Jan-Feb 59.

1. Z Zakladu Badania Organopreparatow i Witamin Instytutu Lekow w
Warszawie Kierownik Zakladu: mgr. J. Iwanowska. Dyrektor Instytutu:
prof. dr P. Kubikowski.

(GASTROINTESTINAL SYSTEM, microbiology.

bact. synthesizing vitamin B12, isolation in animals
(Pol))

(VITAMIN B12,

isolation of gastrointestinal bact. synthesizing vitamin
B12 in animals (Pol))

(BACTERIA,

isolation of bact. synthesizing vitamin B12 (Pol))

KAKOL, Helena; BOGUCKA, Jadwiga; GAJCY, Hanna

Synthesis of vitamin B2 in using of *Eremothecium ashbyii*. Acta
physiol.polon. 12 no.1:181-188 Ja-F '60.

1. Z Zakladu Badania Organopreparatow i Witamin Instytutu Lekow
w Warszawie. Kierownik Zakladu: mgr J. Ivanowska.
(FUNGI metab.)
(VITAMIN B2 metab.)

KAKOL, Helena; BOGUCKA, Jadwiga; GAJCY, Hanna.

Chromatographic determination of folic acid with the aid of streptococcus faecalis. Acta physiol pol 12 no.6:869-880 '61.

1. Zaklad Badania Organopreparatow i Witamin Instytutu Lekow w Warszawie.
Kierownik: mgr. Iwanowska, J. Adres autorow: Instytut Lekow, Warszawa,
ul. Długa 16.

(Chromatography)

BIESTEK, Alina; KAKOL, Helena; BOGUCKA, Jadwiga; GAJCY, Hanna

An attempt to synthesize testosterone from dehydroisoandrosterone microbiologically. Acta physiol pol 12 no.6:881-886 '61.

1. Zaklad Badania Organopreparatow i Witamin Instytutu Lekow w Warszawie.
Kierownik: mgr. J. Iwanowska. Adres autorow: Instytut Lekow, Warszawa,
ul. Długa 16.

(Testosterone) (Chemical reactions)

KAKOL, H.; BOGUCA, J.; GAJCY, H.

Microbiological determination of folic acid in simple pharmaceutical preparations by the cup method. Acta physiol. polon. 13 no.5:671-677 '62.

1. Z Instytutu Lekow w Warszawie Dyrektor: prof. dr P. Kubikowski
Z Zakladu Biochemii Instytutu Lekow Kierownik: mgr J. Iwanowska.
(FOLIC ACID) (BIOLOGICAL ASSAY) (STREPTOCOCCUS FAECALIS)

KAKOL, Helena; BOGUCKA, Jadwiga; GAJCZY, Hanna

Determination of vitamin B 12 (cyanocobalamin) in liver preparations with the use of *Lactobacillus leichmanii* and paper chromatography. Med. dosw. mikrobiol. 16 no.1:69-72 '64.

1. Z Zakladu Biochemii Instytutu Lekow w Warszawie.

KAKOL, Helena; BOGUĆKA, Jadwiga; GAJGY, Hanna

Biochemical analysis of liver extracts of the "crude" type
after alkaline hydrolysis. Acta physiol. Pol. 16 no.3:475-483
My-Je ' 65.

1. Zakład Biochemii Instytutu Leków w Warszawie (Dyrektor
Instytutu: prof. dr. P. Kubikowski; Kierownik Zakładu: mgr.
J. Iwanowska).

KAKOL, I.

NIEMIERKO, W.; KAKOL, I.; ZALUSKA, H.

Carbohydrate metabolism during growth of silkworm Larvae. Acta
physiol. polon. 5 no.4:584-586 1954.

1.2 Zakladu Biochemii Instytutu im. M. Nenckiego. Kierownik: prof.
dr W. Niemierko.

(MOTHS,

silkworm, carbohydrate metab. during growth of larvae)

(CARBOHYDRATES, metabolism,

silkworm, during develop. in larvae)

KAKOL, I.

NIEMIERKO, W.; DYDYNSKA, M.; DRABIKOWSKI, W.; KAKOL, I.; ZALUSKA, E.

Free and bound ATP and ADP in frog muscles. Acta physiol. polon. 5
no.4:609-611 1954.

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prof. dr W. Niemierko.

(ADENYLYPYROPHOSPHATE, metabolism,

musc., in frog)

(MUSCLES, metabolism,

ADP & ATP)

KAKOL, I

BRAHMS, J.; KAKOL, I.

Correlation between sulphhydryl groups of myosin and phosphorus compounds during decomposition of adenosintriphosphoric acid. Acta physiol. polon. 8 no.3:289-290 1957.

1. Z Zakladu Biochemii Instytutu im. M. Nenckiego w Warszawie Kierownik: prof. dr W. Niemierko.

(ADENYLTYROPHOSPHATE,

decomposition, correlation between sulphhydryl groups of myosin & phosphorus cpds. (Pol))

(SULPHYDRYL COMPOUNDS,

relation to phosphorus in ATP decomposition (Pol))

(PYOSPHORUS

relation to myosin sulphhydryl cpds. in ATP decomposition (Pol))

(MUSCLE PROTEINS,

myosin sulphhydryl cpds., relation to phosphorus in ATP decomposition (Pol))

KAKOL, I.

DYDYNKA, M.; KAKOL, I.; KOWALSKI, T.; STRZELECKA, H.; NIEMIENKO, W.

Binding of nucleotides with muscle proteins and with other organs in
frog. Acta physiol. polon. 8 no.3:316-318 1957.

1. Z Zakladu Biochemii Instytutu im. M. Nenckiego w Warszawie Kierownik:
prof. dr W. Niemierko.

(MUSCLE PROTEINS,

binding with nucleotides (Pol))

(NUCLEOSIDES AND NUCLEOTIDES,

binding with musc. proteins & other organs in vitro (Pol))

GRUDA, J.; KAKOL, I.; RZYSKO, C.

Splitting of ATP by actomyosin and changes in the character of its
phosphorus compounds. Bul Ac Pol biol 8 no.4:133-135 '60.

(EEAI 9:10)

(ADENOSINE TRIPHOSPHATES)
(ACTOMYOSINS)
(PHOSPHORUS)

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Microbial degradation of lupanine. IV. Bul Ac Pol biol 10
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L 1102/-66

ACC NR: AP6004963

SOURCE CODE: CZ/0183/65/000/002/0080/0086

AUTHOR: Jus, A.—Yus, A.; Jusova, K.—Yus, K.; Kakolewski, J.—Kankolevskiy, I.

ORG: Psychiatric Clinic A. M., Warsaw

TITLE: The influence of intravenous administration of noradrenaline upon polygraphic reactions of schizophrenics

SOURCE: Ceskoslovenska psychiatrie, no. 2, 1965, 80-86

TOPIC TAGS: drug treatment, psychoneurotic disorder, gland drug, physiologic parameter, blood pressure, psychophysiology

ABSTRACT:

A study was made of 10 recent and 10 chronic schizophrenics, and 10 normal subjects. Recent cases before treatment react to noradrenaline administration by lower systolic and diastolic blood pressure increase, and by a higher increase in heart beat frequency than the controls. During treatment these values approach the values of the the control group. The psychic state is improved in proportion to these values. After the interruption of the treatment there is a gradual reversion to the original conditions. Chronic schizophrenics did not show any changes in blood pressure caused by noradrenaline. The decrease of the heart beat frequency was much greater than in the control group. Possible hypothalamic mechanism of the reaction is discussed. This work was presented by J. Brehovy. Orig. art. has: 1 figure and 2 tables. /JRS/

SUB CODE: 06 / SUBM DATE: none

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TOCZKO M., BRZESKI W., KAKOLEWSKA-BANIUK A.
Institute of Biochemistry and Biophysics at the Polish Academy of Sciences (Instytut Biochemii i Biofizyki, PAN);
Department of Biochemistry at the Agricultural University (Zaklad Biochemii, SGGW), Warsaw.

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Abstract [English article, Russian summary]: It has been established, by means of physico-chemical and biological methods, that alkaloid L₁ previously obtained as a product of bacterial disintegration of lupanine is identical with 17-hydroxylupanine.

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